



Imagine a Smart thing  
STM32L4 Discovery Kit IoT node



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Wireless Challenge IV

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DC Micro Motor



DC Micro Motor Series



AQZ202

High-power PhotoMOS relays, new AQZ type



AQV252G3S

High Power SOP PhotoMOS



MIC2544

MIC2544 – a family of power switch integ



PicoZed SDR 1x1

Avnet Expands PicoZed Product Family wit



FTDI CleO35

FTDI CleO35 - ready for embedding CE and



2JW0124

LTE Antenna for demanding applications



Arduino UNO R3

NerO - Arduino UNO R3 Compatible Board w



BC95

**WILLOW TECHNOLOGIES**

**Accurate and Reliable Testing with SGRF300 RF Relays**

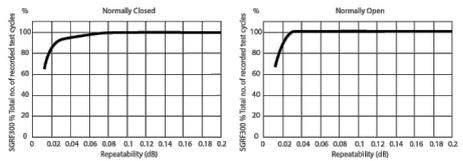


Willow Technologies introduces the SGRF300 RF non-latching DPDT Signal Relay, with signal integrity up to 18Gbps. It is designed with a unique ground shield that isolates and shields each lead, ensuring excellent pole to pole and contact to contact isolation.

John Merrill, Product Manager Relays at Willow commented "This ultra-miniature relay (Ø9.4 x 8.64mm high) weighs just 2.55g and provides improved high frequency performance with reduced signal degradation."

The SGRF300 series relays are routinely used in Automatic Test Equipment (ATE) where the parameters of the Device Under Test (DUT) are being measured and high repeatability combined with high frequency signal fidelity is important. In applications such as semiconductor testing where the relay can be switching with high frequency, insertion loss repeatability over the life of the relay is essential. The SGRF-300 series provides class leading insertion loss repeatability over the 10 million cycle life of the relay when switching low level RF signals to 18Gbps. Furthermore, the unique ground shield design ensures excellent isolation and improved high frequency performance whilst enabling easy visual inspection of the surface mount solder connections.

"ATE Printed Circuit Boards (PCBs) are very expensive and may contain as many as ninety or more relays on one PCB, they are costly to repair and replace so it is important that insertion loss repeatability over the relay life be as consistent as possible." continued Merrill. The graphs below demonstrate this clearly.



In addition, the SGRF300 series extend performance advantages over similar RF devices with simple formed surface out leads making them particularly useful for RF attenuators, RF Switch Matrices and other applications such as broadcast and aerospace where high frequency signal fidelity and performance are required.

"It is important to keep signal lines separate to avoid the signal on one line interfering or affecting the signal on another lead. The SGRF300 achieves this with a ground shield between each lead. Without the ground shield the lead would act like a small aerial and broadcast its signal around. These relays are popular simply for the good reason that they are accurate and reliable." Concluded Merrill.

[SGRF300 Datasheet](#)

2017112301 / 24. 11. 2017 / [Electronic-components](#) / [Willow Technologies](#) /



[www.electronic-info.eu/2017112301/accurate-and-reliable-testing-with-sgrf300-rf-rela](http://www.electronic-info.eu/2017112301/accurate-and-reliable-testing-with-sgrf300-rf-rela)  
[www.components.online/2017112301/accurate-and-reliable-testing-with-sgrf300-rf-rela](http://www.components.online/2017112301/accurate-and-reliable-testing-with-sgrf300-rf-rela)



**Accurate and Reliable Testing with SGRF300 RF Relays**

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Company of the week

**ROHM SEMICONDUCTOR**  
ROHM Semiconductor

Interesting video

The ISS Design Challenge ...

Address Book


SEARCH

**NEWSLETTER**

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Calendar

- SPS IPC Drives 2017, Nuremberg, DE, 28.-30.11.2017
- Intersolar India, Mumbai, 5-7.12.2017
- NEPCON Japan, Tokyo, 17-19.1.2018
- Mobile World Congress 2018, Barcelona, 26.2.-1.3.2018
- PITTCON 2018, Orlando, 16.2.-1.3.2018
- embedded world 2018, Nürnberg, DE, 27.2.-1.3.2018
- Middle East Electricity, Dubai, 6-8.3.2018
- electronica China, March 14 – 16, 2018, Shanghai
- AMPER 2018, Brno, CZ, 20.-23.3.2018
- AUTOMATICON 2018, Warszawa, PL, 20. - 23.3.2018
- NEPCON China 2018, Shanghai, 24.-26.4.2018
- ELOSYS-2018, 22.-25.5.2018, Trenčín, SK
- SMT Hybrid Packaging 2018, 5-7.6.2018, Nuremberg, Germany
- automatica 2018, Munich, DE, 19.-22.6.2018
- electronica 2018, Munich, DE, 13.-16.11.2018

Interesting video

Mouser Electronics Warehouse Tour with Grant Imahara

**AMPER**  
future technologies  
2018

26<sup>th</sup> International Trade Fair of Electrotechnics, Electronics, Automation, Communication, Lighting, and Security Technologies

**20. - 23. 3. 2018**  
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